

## Claims

1. Adjusting and fixing device comprising a base body and one or several thereupon supported attachment bodies 4 locally fixed fixation of at least two building components at a distance from each other characterized in that an attachment body (4,5) is rotatably and swivelably inserted into each end region (2 and 3) of the base body (1) and wherein the attachment body (4,5) is held toward the outside and wherein in each case a pressure body (6,7) shiftably follows inwardly to the base body (1), wherein the wedge piece (8) shiftable at a right angle relative to the shifting direction of the pressure bodies (6,7) is disposed and fixes with this pressure body (6,7) the attachment body (4,5).

2. Adjusting and fixing device according to claim 1 characterized in that the wedge piece (8) is disposed shiftable to at least two pressure bodies (6,7) shiftable at a right angle to the shift direction of the pressure bodies (6,7), wherein attachment bodies (4, 5) coordinated to these pressure bodies (6,7) are fixed.

3. Adjusting and fixing device according to one of the preceding claims characterized in that the attachment bodies (4,5) comprise the ball part (10) or the shell of a sphere part (11) and an attachment bolt (9) fixedly attached to the ball part

(10) or to the shell of a sphere part (11) and in particular produced as a forged single piece, and wherein an attachment part (32) is attached that the free end region of the attachment bolt (9).

4. Adjusting and fixing device according to one of the preceding claims characterized in that at least two or several ball parts (10) or shell of a sphere parts (11) with a rigid connection piece, in particular a connection bolt, are disposed at a distance relative to each other and are inserted into at least two or several base bodies (1), wherein in each case ball parts or shell of a sphere parts of attachment bodies (4,5) are inserted at the other ends.

5. Adjusting and fixing device according to one of the preceding claims characterized in that the base body (1) forms a cylindrical tube or a formed tube, into particular with square or hexagonal cross-section, wherein the ends of the tube are adapted to the attachment bolts (9) of the attachment bodies (4,5) and their swivel motions.

6. Adjusting and fixing device according to one of the preceding claims characterized in that the ball part (10) of the attachment body (4,5) is supported with a small play in the cylindrical tube or in an insert with cylindrical cross-section of the

formed tube of the base body (1) and wherein the ball part (10) is held toward the outside in the end region (2,3) of the base body (1) by an inserted holding part (12), wherein preferably the holding part (12) is formed by a retainer ring inserted in a recess (13) or in particular by an upsetting of the tube of the base body furnishing a narrowing of the diameter.

7. Adjusting and fixing device according to one of the preceding claims characterized in that the ball part (10) of the attachment body (4,5) is furnished with an inner thread, wherein the attachment bolt (9) with an outer thread is screwed into the inner thread of the ball part (10).

8. Adjusting and fixing device according to one of the preceding claims characterized in that the attachment bolt (9) is welded on, soldered on, friction welded, riveted or adhesively attached at the ball part (10) or at the shell of a sphere part (11) of the attachment body (4,5).

9. Adjusting and fixing device according to one of the preceding claims characterized in that the attachment part (32) of the attachment bolt (9) comprises an anchor screw (15) or an angle piece (16) or a screw connection, preferably with the

nut and counter nut or out of other standard parts for the attachment of arbitrary parts.

10. Adjusting and fixing device according to one of the preceding claims characterized in that the edge of the tube of the base body (1) coordinated to an attachment bolt (9) is furnished with at least one recess (17), wherein the width of the recess (17) and the depth of the recess (17) correspond at least to the diameter of the attachment bolt (9), and in particular to the key width of the hexagon profile of the attachment bolt (9).

11. Adjusting and fixing device according to one of the preceding claims characterized in that the pressure bodies (6,7) are shiftably supported with low play in the tube of the base body (1) and exhibit forms adapted to the ball parts (10) or to the shell of a sphere parts (11) and exhibit a ball shaped convex pressure face (18) or a cylindrical convex pressure face directed toward the wedge piece (8), wherein the pressure bodies (6,7) follow inwardly to the ball parts (10) or the shell of a sphere parts (11) of the attachment bodies (4,5).

12. Adjusting and fixing device according to one of the preceding claims characterized in that the wedge piece (8) is formed as a pressure piece or as a pull

piece, which engages preferably centered into the tube of the base body (1), wherein a thread (21) or an actuating bolt for a hydro mechanical or electromechanical set member follows toward the outside at the pressure wedge (19) of the wedge piece (8) or at the pull wedge (20) of the wedge piece (8).

13. Adjusting and fixing device according to one of the preceding claims characterized in that the tube of the base body (1) is furnished with a formed in inner thread (22), in particular a formed on tube socket (23) or with a welded on nut or with a bore hole for the wedge piece (8) formed as a pull wedge (20) with thread (21) and with a milled key face (24) for the seat of a nut (25).

14. Adjusting and fixing device according to one of the preceding claims characterized in that the wedge piece (8) is guided at the oppositely disposed side of the tube of the base body (1) in a guide bore (26).

15. Adjusting and fixing device according to one of the preceding claims characterized in that the wedge piece (8) exhibits pressure faces (18) that the pressure wedge (19) or at the pull wedge (20), wherein the pressure faces (18) are furnished with high strength and surface hardness.

16. Adjusting and fixing device according to one of the preceding claims characterized in that the pressure body (6,7) with a face disposed toward the coordinated ball part (10) or shell of a sphere part (11), with at least one back center (28), preferably disposed outside of the longitudinal axis of pressure body (6,7) and ball part (10) or shell of a sphere part (11), or with several distributed dead centers or with a ring or several part rings, preferably inserted or furnished with a compression spring (29) inserted between the pressure body (6,7) and the ball part (10) for the shell of a sphere part (11).

17. Adjusting and fixing device according to one of the preceding claims characterized in that the attachment bodies (4,5) of successively following or next to each other disposed based bodies (1) are aligned and fixed to the attachment bolt (9), in particular at facade front placements, spatially alternating and deviating in three spacial directions, in the kind of webs of grid carriers.

18. Adjusting and fixing device according to one of the preceding claims characterized in that the base bodies (1) are constructed decomposable and can be equipped exchangeably with attachment bodies (4,5) and/or the pressure bodies (6,7) of the same kind or of a different kind.

19. Adjusting and fixing device according to one of the preceding claims characterized in that at least one of the attachment bolts (9) is furnished with a scoring (36) and is preferably close to the attachment location angled off at the attachment body (4 or 5) at an angle to the axis of the attachment bolt of from about 10 to 45 degrees, in particular of 30 degrees.

20. Adjusting and fixing device according to one of the preceding claims characterized in that the attachment part of the attachment bolt (9) furnished with the scoring (36) is formed as a loose angle piece (33), wherein an impression (35) for the attachment bolt (9) is furnished in the loose angle piece (33) running at a right angle to the angling off and equipped on the inside with grooves (37) and is furnished with an attachment arrangement for attaching at frame parts (38), preferably for the attachment at wood.

21. Adjusting and fixing device according to one of the preceding claims characterized in that the loose angle piece (33) exhibits a passage opening for an attachment bolt (9) at the angling off and toward the impression (35) located.

22. Adjusting and fixing device according to one of the preceding claims characterized in that the loose angle piece (33) is furnished with an attachment

arrangement for applying at the frame parts (38), preferably with bore holes (34) for school connections (41), for the attachment at frame parts (38) made of wood at the arm with the impression (35).